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|---|--|------------------------|---------------|
| <b>DECLARATION FOR<br/>UTILITY OR DESIGN<br/>PATENT APPLICATION</b>   |  | Attorney Docket Number | 20 0141       |
|   |  | First Named Inventor   | Hong-Goo Kang |
| <b>COMPLETE IF KNOWN</b>  |  |                        |               |
| <input type="checkbox"/> Declaration Submitted OR<br><input checked="" type="checkbox"/> Declaration submitted after Initial Filing |  | Application Number     | 09/834391     |
|   |  | Filing Date            | 04/13/2001    |
|   |  | Group Art Unit         | 2644          |
|   |  | Examiner Name          |               |

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor(if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Adaptive Short-Term Post-Filters For Speech Coders

*(Title of Invention)*

the specification of which

is attached hereto

OR

was filed on 04/13/2001 as United States Application Number or PCT International

Application Number 09/834391 and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations,§ 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of an application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached? |
|-------------------------------------|---------|----------------------------------|--------------------------|--------------------------|
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> |

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) below.

| Application Number(s) | Filing Date( MM/DD/YYYY) |   |
|-----------------------|--------------------------|---|
| 60/197877             | 04/17/2000               | <input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto |

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231

Attorney Docket Number: 2000-0141

# DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

| U.S. Parent Application or PCT Parent Number | Parent Filing Date (MM/DD/YYYY) | Parent Patent Number (if applicable) |
|--|---------------------------------|--------------------------------------|
|  |                                 |                                      |

Additional U.S. or PCT International application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

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Registered practitioner(s) name/registration number listed below

| Name               | Registration Number | Name                 | Registration Number |
|--------------------|---------------------|----------------------|---------------------|
| CANAVAN, Robert T. | 37592               | CONOVER, Michele L.  | 34962               |
| DELACRUZ, Cedric G | 36498               | DWORETSKY, Samuel H. | 27873               |
| GARG, Rohini K     | 45272               | ISAACSON, Thomas M.  | 44166               |
| LEE, Benjamin S.   | 42787               | LEVY, Robert B.      | 28234               |
| MCGAHAN, Susan E.  | 35948               | MONKA, Gary H.       | 35290               |

I also appoint the following additional registered practitioner(s) named on the Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C modified by AT&T Corp.) attached hereto with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

Direct all phone inquiries to: Isaacson, Thomas M. 410-257-5485

Direct all written correspondence to:

Customer Number or Bar Code Label

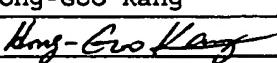
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or  Correspondence address below

|         |                          |       |            |          |              |
|---------|--------------------------|-------|------------|----------|--------------|
| NAME    | Samuel H. Dworetsky      |       |            |          |              |
| ADDRESS | AT&T CORP. P.O. Box 4110 |       |            |          |              |
| CITY    | Middletown               | STATE | New Jersey | ZIP CODE | 07748-4110   |
| COUNTRY | United States of America |       |            | FAX      | 732-368-6932 |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor  A petition has been filed for this unsigned inventor

|                  |   |               |
|------------------|---|---------------|
| Name             | Hong-Goo Kang   |               |
| Signature        |  | Date 8/6/2001 |
| Citizenship      | Korea South   |               |
| Address (line 1) | 149 N. Hillside Avenue  |               |
| Address (line 2) | Chatham   |               |
| Address (line 3) | Morris County   |               |
| Address (line 4) | New Jersey  |               |
| Address (line 5) | USA   |               |
| Zip Code         | 07928   |               |

Additional inventors are being named on the 1 separately numbered sheets attached hereto

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

Attorney Docket Number: 2000-0141

| <b>DECLARATION</b>                         |                                 | ADDITIONAL INVENTOR(S)<br>Supplemental Sheet<br>Page 1 of 1                   |  |
|--|---------------------------------|---|--|
| Name of Additional Joint Inventor, if any: |                                 | <input type="checkbox"/> A petition has been filed for this unsigned inventor |  |
| Name                                       | Hong Kook Kim                   |   |  |
| Signature                                  | <i>Hong Kook Kim</i>            |   |  |
| Citizenship                                | Korea South                     |   |  |
| Address (line 1)                           | 25 Hickory Place, Apartment H-3 |   |  |
| Address (line 2)                           | Chatham                         |   |  |
| Address (line 3)                           | Morris County                   |   |  |
| Address (line 4)                           | New Jersey                      |   |  |
| Address (line 5)                           | USA                             |   |  |
| Zip Code                                   | 07928                           |   |  |
| Name of Additional Joint Inventor, if any: |                                 | <input type="checkbox"/> A petition has been filed for this unsigned inventor |  |
| Name                                       |                                 |   |  |
| Signature                                  |                                 |   |  |
| Citizenship                                |                                 |   |  |
| Address (line 1)                           |                                 |   |  |
| Address (line 2)                           |                                 |   |  |
| Address (line 3)                           |                                 |   |  |
| Address (line 4)                           |                                 |   |  |
| Address (line 5)                           |                                 |   |  |
| Zip Code                                   |                                 |   |  |
| Name of Additional Joint Inventor, if any: |                                 | <input type="checkbox"/> A petition has been filed for this unsigned inventor |  |
| Name                                       |                                 |   |  |
| Signature                                  |                                 |   |  |
| Citizenship                                |                                 |   |  |
| Address (line 1)                           |                                 |   |  |
| Address (line 2)                           |                                 |   |  |
| Address (line 3)                           |                                 |   |  |
| Address (line 4)                           |                                 |   |  |
| Address (line 5)                           |                                 |   |  |
| Zip Code                                   |                                 |   |  |
| Name of Additional Joint Inventor, if any: |                                 | <input type="checkbox"/> A petition has been filed for this unsigned inventor |  |
| Name                                       |                                 |   |  |
| Signature                                  |                                 |   |  |
| Citizenship                                |                                 |   |  |
| Address (line 1)                           |                                 |   |  |
| Address (line 2)                           |                                 |   |  |
| Address (line 3)                           |                                 |   |  |
| Address (line 4)                           |                                 |   |  |
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| Zip Code                                   |                                 |   |  |

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

Attorney Docket Number: 2000-0141

| <b>DECLARATION</b>  |                                | <b>Registered Practitioner<br/>Information<br/>(Supplemental Sheet)</b> |                                |
|---|--------------------------------|---|--------------------------------|
| <b>Name</b>   | <b>Registration<br/>Number</b> | <b>Name</b>   | <b>Registration<br/>Number</b> |
| NAVON, Jeffrey M<br>STEINMETZ, Alfred G.<br>ZIEROTH, Lee W. | 32711<br>22971<br>28550        | RESTAINO, Thomas A.<br>SZWERC, Christine                                | 33444<br>43177                 |

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Declaration and Power of Attorney**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Adaptive Short-Term Post-Filters For Speech Coders**, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119(a-d) or 365(a-b) of PCT or foreign application(s) for patent or inventors' certificate listed below or priority benefits under 119(e) of any United States provisional application(s) listed below and have also identified below any foreign application for patent or inventors' certificate having a filing date before that of the application on which priority is claimed:

**U.S. Provisional Application Serial No. 60/197,877 filed April 17, 2000**

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**None**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

|                     |                  |                     |                  |
|---------------------|------------------|---------------------|------------------|
| Samuel H. Dworetsky | (Reg. No. 27873) | Benjamin S. Lee     | (Reg. No. 42787) |
| Thomas A. Restaino  | (Reg. No. 33444) | Robert B. Levy      | (Reg. No. 28234) |
| Robert T. Canavan   | (Reg. No. 37592) | Susan E. McGahan    | (Reg. No. 35948) |
| Michele L. Conover  | (Reg. No. 34962) | Gary H. Monka       | (Reg. No. 35290) |
| Cedric G. DeLaCruz  | (Reg. No. 36498) | Jeffrey M. Navon    | (Reg. No. 32711) |
| Rohini K. Garg      | (Reg. No. 45272) | Alfred G. Steinmetz | (Reg. No. 22971) |
| Gregory J. Gorrie   | (Reg. No. 36530) | Christine Szwerc    | (Reg. No. 43177) |
| Thomas M. Isaacson  | (Reg. No. 44166) | Lee W. Xieroth      | (Reg. No. 28550) |

I also appoint James A. Oliff (Reg. No. 27075), William P. Berridge (Reg. No. 30024), Kirk M. Hudson (Reg. No. 27562), Thomas J. Pardini (Reg. No. 30411), Paul Tsou (Reg. No. 37956) and Bud Y. Mathis (Reg. No. 44907) of Oliff & Berridge as associate attorneys, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence to Mr. S. H. Dworetsky, AT&T Corp., P.O. Box 4110, Middletown, New Jersey 07748. Telephone calls should be made to Thomas M. Isaacson at 410-257-5485.

Full name of 1<sup>st</sup> joint inventor: Hong-Goo KANG

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Chatham, Morris County, New Jersey

Citizenship: South Korea

Post Office Address: 25 Hickory Place, Apt. D-11  
Chatham, New Jersey 07928

Full name of 2<sup>nd</sup> joint inventor: Kim Hong KOOK

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Chatham, Morris County, New Jersey

Citizenship: South Korea

Post Office Address: 25 Hickory Place, Apt. H-3  
Chatham, New Jersey 07928



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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TMU  
2000-0141

OCTOBER 30, 2001

PTAS

AT&T CORP.  
SAMUEL H. DWORETSKY  
P.O. BOX 4110  
MIDDLETOWN, NEW JERSEY 07748-4110



\*101828301A\*

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
KANG, HONG-GOO

DOC DATE: 08/07/2001

ASSIGNOR:  
KIM, HONK KOOK

DOC DATE: 08/07/2001

ASSIGNEE:  
AT&T CORP.  
32 AVENUE OF THE AMERICAS  
NEW YORK, NEW YORK 10013-2412

SERIAL NUMBER: 09834391  
PATENT NUMBER:

FILING DATE: 04/13/2001  
ISSUE DATE:

|                      |         |
|----------------------|---------|
| AT&T PATENT          |         |
| DOCKETED BY          | Spencer |
| ORIGINALLY MANAGED   |         |
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## Conveying Party(ies)

Mark if additional names of conveying parties attached

|               |                |  |
|---------------|----------------|--|
| Name (line 1) | Kang, Hong-Goo | Execution Date<br>MMDDYYYY<br>08/07/2001 |
| Name (line 2) |                |  |

## Second Party

|               |                |  |
|---------------|----------------|--|
| Name (line 1) | Kim, Hong Kook | Execution Date<br>MMDDYYYY<br>08/07/2001 |
| Name (line 2) |                |  |

## Receiving Party

Mark if additional names of receiving parties attached

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## Page 2

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|         |                          |       |            |          |
|---------|--------------------------|-------|------------|----------|
| NAME    | Samuel H. Dworetzky      |       |            |          |
| ADDRESS | AT&T CORP. P.O. Box 4110 |       |            |          |
| CITY    | Middletown               | STATE | New Jersey | ZIP CODE |
| COUNTRY | United States of America |       |            |          |

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Patent Application Number(s)

Patent Number(s)

09/834391

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Fee Amount for Properties Listed (37 CFR 3.41): \$40.00

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(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: 01-2745

Authorization to charge additional fees:  Yes  No

## STATEMENT AND SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

NAME Thomas M. Isaacson

TELEPHONE 410-257-5485

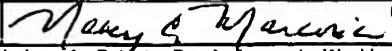
SIGNATURE 

DATE 8-14-01

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Type or Printed Name Nancy C. Marcovici

Signature  Date 8-14-01

**ASSIGNMENT AND AGREEMENT**

For value received, each of the undersigned, Hong-Goo Kang of Chatham in the County of Morris and State of New Jersey, and Hong Kook Kim of Chatham in the County of Morris and State of New Jersey, hereby sells, assigns and transfers to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, United States of America, and its successors, assignees and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to

**Adaptive Short-Term Post-Filters For Speech Coders**

described in an application for Letters Patent for the United States of America, for which an application for a United States Patent was filed on 04/13/2001 Application Number 09/834391, and all the rights and privileges in said application and in the provisional application filed on 4/17/2000 Application Number 60/197,877 and under any and all Letters Patent that may be granted in the United States for said inventions; and the undersigned also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

The undersigned authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from the undersigned, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

The undersigned hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

The undersigned request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

The undersigned agree that, when requested, the undersigned shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

*Hong Kook Kim*  
Hong Kook Kim

Date: 8/7/01

United States of America )

State of New Jersey ) ss.:

County of Morris )

On this 7<sup>th</sup> day of August, 2001 before me personally came Hong Kook Kim, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*Maureen Kane-Sara*  
Notary Public

AT&T CORP.  
P.O. Box 4110  
Middletown, New Jersey 07748-4110

MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004



Hong-Goo Kang  
Hong-Goo Kang

Date: 8/7/01

United States of America

State of New Jersey

County of Morris

)

) ss.:

)

On this 7 day of August, 2001 before me personally came Hong-Goo Kang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Maureen Kane-Sara  
Notary Public

AT&T CORP.  
P.O. Box 4110  
Middletown, New Jersey 07748-4110

MAUREEN KANE-SARA  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 2004

